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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,723	05/24/2006	Hans Streubel	207,519	9370
38137 ARFI MAN F	7590 10/25/2007 TRAVNE & SCHWAR		EXAMINER	
ABELMAN, FRAYNE & SCHWAB 666 THIRD AVENUE, 10TH FLOOR			LIN, KUANG Y	
NEW YORK,	NY 10017		ART UNIT PAPER NUMBER	
			1793	
		•	MAIL DATE	DELIVERY MODE
•	•		10/25/2007	PAPER .

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<u> </u>	Application No.	Applicant(s)				
Office Astion Comments	10/580,723	STREUBEL ET AL.				
Office Action Summary	Examiner	Art Unit				
· · ·	Kuang Y. Lin	1793	1.1.			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MOI , cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this co BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 09 O	ctoher 2007		•			
	action is non-final.					
	•	ters prosecution as to the	merits is			
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	parto quajro, roco o	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Disposition of Claims		·				
4) Claim(s) 11 and 12 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>11 and 12</u> is/are rejected.	6)⊠ Claim(s) <u>11 and 12</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.	•				
Application Papers			•			
9) The specification is objected to by the Examine	г.					
10) The drawing(s) filed on is/are: a) acce		by the Examiner.	•			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct			FR 1.121(d).			
11) The oath or declaration is objected to by the Ex		•				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f)				
a) All b) Some * c) None of:	process and a cray a	3				
1. Certified copies of the priority documents	s have been received					
	2. Certified copies of the priority documents have been received in Application No.					
3. Copies of the certified copies of the prior			Stage			
application from the International Bureau			3			
* See the attached detailed Office action for a list	•	received.				
	•					
		•				
		,				
Attachment(s)	, <u> </u>	O (PTO 112)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) (s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of	Informal Patent Application				
Paper No(s)/Mail Date	6) Other:	<u> </u>				

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 11 and 12 are also rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,381,857 to Tozawa et al. and further in view of either US 6,494,249 to Kollberg et al. or WO 92/12,814.

Tozawa et al. substantially show (see, for example, col. 6, line 35 through col. 7, line 23 and figure 15) the invention as claimed that they do not show to use permanent magnet for braking the molten metal flow. However, each of the secondary references shows (see, for example, page 3, 1st paragraph of WO '814 or col. 11, lines 1-4 and 57-61 of Kollberg et al.) that it is conventional to use either electromagnetic or permanent for braking the molten metal flow. Thus, the use of permanent magnet in lieu of electromagnetic for braking the

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molten metal flow presents no novel or unexpected result and solves no stated problem and would have been obvious to those of ordinary skill in the continuous casting art, *In re Kuhle, 188 USPQ 7*.

4. Applicant's arguments filed October 9, 2007 have been fully considered but they are not persuasive.

Applicant in the junction paragraph between pages 7 and 8 of the response stated that none of the prior art reference discloses or suggest rotatable means for pivotally displacing permanent magnets mount of the mold and Tozawa discloses linearly movable means. However, in figure 15 of Tozawa it shows that the magnet Fb is rotatable mounted on the bracket 7 through bracket 8 and hinge pin 9 (see col. 6, line 35+). In operation, the magnetic flux density controlling device shown in Fig. 15 is operated to change the distance between the upper magnet poles 31a, 31b by swinging iron core Fb around hinge 9 with a hydraulic cylinder 10 (see col. 7, line 19+). Thus, Tozawa does show the claimed rotatable feature.

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuang Y. Lin whose telephone number is 571-272-1179. The examiner can normally be reached on Monday-Friday, 10:00-6:30,.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jonathan J. Johnson can be reached on 571-272-1177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kuang Y. Lin/ Primary Examiner Art Unit 1725